

Detail of Hex (Hd) HSFG Bolt property Class-10.9 with Hex (Hd) Nut, DTI Washer, Plain / Taper Washer and Bolt Face Washer with property Class-10 as per RDSO drawing no. RDSO/B-11760 -R1, BS 111 (Rev-6), EN 14399 Part 3,5,6,9 , IS 5372 & IS 1570 latest editions for 8X76.2 M Span of Ganga Bridge Prayagraj Project.

Annexure-A

Sl No	Bolt	DTI Washer	Plain Washer	Bolt Face Washer	Taper Washer	Plain Nut thickness (m) Max.	Thread Length (b)	Bolt Length (l)	For 8X76.2m Spans
		mm	mm	mm	mm	mm	mm	mm	Nos
1	M 20	As per En14399 Part 9	As per En14399 Part 5	As per En14399 Part 9	N.A.	As per En14399 Part 3	As per En14399 Part 3	70	704
2	M 22	As per En14399 Part 9	As per En14399 Part 5	As per En14399 Part 9	N.A.	As per En14399 Part 3	As per En14399 Part 3	60	6720
3	M 22	As per En14399 Part 9	As per En14399 Part 5	As per En14399 Part 9	N.A.	As per En14399 Part 3	As per En14399 Part 3	65	7680
4	M 22	As per En14399 Part 9	As per En14399 Part 5	As per En14399 Part 9	N.A.	As per En14399 Part 3	As per En14399 Part 3	70	23552
5	M 22	As per En14399 Part 9	As per En14399 Part 5	As per En14399 Part 9	N.A.	As per En14399 Part 3	As per En14399 Part 3	75	65696
6	M 22	As per En14399 Part 9	As per En14399 Part 5	As per En14399 Part 9	N.A.	As per En14399 Part 3	As per En14399 Part 3	80	57536
7	M 22	As per En14399 Part 9	As per En14399 Part 5	As per En14399 Part 9	N.A.	As per En14399 Part 3	As per En14399 Part 3	85	39776

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		mm	mm	mm	mm	mm	mm	mm	Nos
8	M 22	As per En14399 Part 9	As per En14399 Part 5	As per En14399 Part 9	N.A.	As per En14399 Part 3	As per En14399 Part 3	90	51072
9	M 22	As per En14399 Part 9	As per En14399 Part 5	As per En14399 Part 9	N.A.	As per En14399 Part 3	As per En14399 Part 3	95	21536
10	M 22	As per En14399 Part 9	As per En14399 Part 5	As per En14399 Part 9	N.A.	As per En14399 Part 3	As per En14399 Part 3	100	2048
11	M 22	As per En14399 Part 9	As per En14399 Part 5	As per En14399 Part 9	N.A.	As per En14399 Part 3	As per En14399 Part 3	105	35136
12	M 22	As per En14399 Part 9	As per En14399 Part 5	As per En14399 Part 9	N.A.	As per En14399 Part 3	As per En14399 Part 3	110	3200
13	M 22	As per En14399 Part 9	As per En14399 Part 5	As per En14399 Part 9	N.A.	As per En14399 Part 3	As per En14399 Part 3	115	18752
14	M 22	As per En14399 Part 9	As per En14399 Part 5	As per En14399 Part 9	N.A.	As per En14399 Part 3	As per En14399 Part 3	120	17024

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		mm	mm	mm	mm	mm	mm	mm	Nos
15	M 22	As per En14399 Part 9	As per En14399 Part 5	As per En14399 Part 9	N.A.	As per En14399 Part 3	As per En14399 Part 3	125	3584
16	M 22	As per En14399 Part 9	As per En14399 Part 5	As per En14399 Part 9	N.A.	As per En14399 Part 3	As per En14399 Part 3	130	3072
17	M 22	As per En14399 Part 9	As per En14399 Part 5	As per En14399 Part 9	N.A.	As per En14399 Part 3	As per En14399 Part 3	135	10752
18	M 22	As per En14399 Part 9	As per En14399 Part 5	As per En14399 Part 9	N.A.	As per En14399 Part 3	As per En14399 Part 3	140	6656
19	M 22	As per En14399 Part 9	As per En14399 Part 5	As per En14399 Part 9	N.A.	As per En14399 Part 3	As per En14399 Part 3	150	512
20	M 22	As per En14399 Part 9	As per En14399 Part 5	As per En14399 Part 9	N.A.	As per En14399 Part 3	As per En14399 Part 3	155	1280
21	M 22	As per En14399 Part 9	As per En14399 Part 5	As per En14399 Part 9	N.A.	As per En14399 Part 3	As per En14399 Part 3	170	512

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SI No	Bolt	DTI Washer	Plain Washer	Bolt Face Washer	Taper Washer	Plain Nut thickness (m) Max.	Thread Length (b)	Bolt Length (l)	For 8X76.2m Spans
		mm	mm	mm	mm	mm	mm	mm	Nos
22	M 22	As per En14399 Part 9	As per En14399 Part 5	As per En14399 Part 9	N.A.	As per En14399 Part 3	As per En14399 Part 3	175	256
23	M 22	As per En14399 Part 9	As per En14399 Part 5	As per En14399 Part 9	IS 5372 & IS 1570	As per En14399 Part 3	As per En14399 Part 3	80	3840
Note:									
1	Each Hex (Hd) HSFG Bolt consist of 1 no. DTI Washer, 1no. Hex (Hd) Nut, 1 no. Plain Washer or Taper washer (For ISMC) and 1 no. Bolt Face Washer. Quantity provided in the above mentioned table.								
2	HSFG Bolt conforming to BS: 111 Rev.6 & EN: 14399-3 Grade 10.9								
3	Thread Tolerance of Bolt will be as per EN14399 Part -3								
4	HSFG Nut conforming toBS: 111 Rev.6 & EN: 14399-3 Grade 10								
5	DTI washer conforming toBS: 111 Rev.6 ,EN: 14399-9 & IS1570 , Bolt face washer conforming to BS: 111Rev. 6,EN:14399-9 & IS 1570								
6	Plain washer conforming to BS: 111 Rev.6 & EN: 14399-5 & Taper washer (For ISMC) conforming to IS 5372 &IS1570 latest edition .								
7	All Bolts, Nuts and Washers shall be coated with Zinc Flakes as per ISO: 10683.								
8	Marking on Bolts , Nuts, Plain Washer, DTI Washer and Bolt Face Washer will be as per BS 111 Rev. 6								
9	Taper Washer (for ISMC) will be as per IS 5372 & IS 1570.								